We claim:

1. A method for continuous production of a hydratecontaining material comprising the steps of:

delivering a fluid containing hydrate-forming species to a pressurized, temperature controlled, continuous-flow reactor;

delivering water to said pressurized, temperature controlled, continuous-flow reactor; and

mixing said fluid containing hydrate-forming species with said water within said pressurized, temperature controlled, continuous-flow reactor until a consolidated hydrate/fluid/water stream is formed.

- 2. The method of claim 1 wherein said pressurized, temperature controlled, continuous-flow reactor is a pipe, said water is injected into said pipe, and said consolidated hydrate/fluid/water stream flows from said pipe following said mixing step.
- 3. The method of claim 2 wherein said pipe includes static mixer blades.
- 4. The method of claim 1 wherein said continuous-flow reactor also includes:
 means for controlling the flow rate of said fluid containing hydrate-forming species into said continuous-flow reactor;

means for introducing and controlling the flow rate of said water to said fluid containing hydrate-forming species in said continuous-flow reactor;

temperature control means for controlling the temperature of said continuous-flow reactor; and a pressure control device for controlling the pressure within said continuous-flow reactor.

- 5. The method of claim 4 wherein said means for controlling the flow rate of said fluid containing hydrate-forming species is a mass flow controller.
- 6. The method of claim 4 wherein said means for introducing and controlling the flow rate of said water to said fluid containing hydrate-forming species in said continuous-flow reactor is a pump equipped with a flow controller.
- 7. The method of claim 4 wherein said means for introducing and controlling the flow rate of said water to said fluid containing hydrate-forming species in said continuous-flow reactor is a jet pump.
- 8. The method of claim 4 wherein said continuous-flow reactor further includes static mixing blades for mixing said fluid containing hydrate-forming species and said water.

- 9. The method of claim 4 wherein said continuous-flow reactor further includes electrically powered mixing blades for mixing said fluid containing hydrate-forming species and said water.
- 10. The method of claim 1 wherein said consolidated $hydrate/fluid/water\ stream\ is\ a\ consolidated\ CO_2-hydrate/CO_2-liquid/water\ stream.$